Bhavik Enterprise

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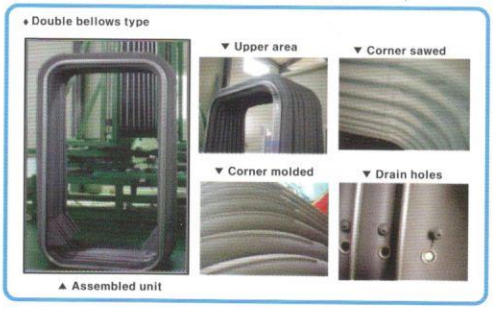
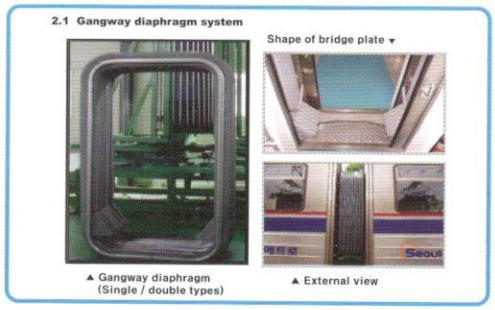
SILICONE ELASTOMERS FOR FIRE-SAFETY STANDARD EN 45545 - 2





Gangway Diaphragm Bellows
Silicone Coated Sheets for Bellows tested for EN 45545 - 2 HL 3

Silicone Rubber EN 45545 - 2 Grade for Rubber Profiles

Silicone Rubber for Wire & Cable
Flame Retardant & Fire Safety Cable

Hazard levels HL1 to HL3 specify the fire-safety requirements that installed components and materials must meet. HL1 denotes the lowest requirements, HL3 the highest.

Silicone Elastomers For Fire-safety Standard EN 45545 - 2

Silicone Rubber - Ready to use Compound for Polymer Insulator Application as per Standard

Synthetic Rubber & Speciality Elastomer

Material Available
HL 3
EN 45545 - 2

BENEFITS

- Good workability
- Good heat resistance
- Excellent fire resistance
- Halogen free
- Satisfied EN 45545 part 2

CERTIFICATES

- Toxicity Index
- Heat Release
- Spread of Flame
- Smoke Density

KCC Silicone Rubber

Fire Resistance Silicone Rubber

Tested for EN45545-2 – HL3

Application – Bellows, Profiles, Sheets, Gaskets and O-rings

Characteristic

Good Workability – Good Heat Resistance – Excellent Fire Resistance

Halogen Free – Easy Processing – Non Toxic

Properties

Properties	Test Method	Result
Flame Retardant	UL 94 V	V0 Class
Limited Oxygen Index	ISO 4589-2	40
Heat Release Test (MARHE)	ISO 5660-1:2015 (50kw/m²)	41.5 kw/m²
Spread of Flame	ISO 5658-2:2006 (50kw/m²)	CFE (kw/m²) – 22.2
Toxicity Index	BS6853:1999 (25kw/m²)	R value 0.01
Smoke Density	ISO 5659-2:2017 (50kw/m²)	Ds(max) – 17.80 Ds(4.0min) – 16.50

Other Speciality Silicone Rubber Grade Available

- Fire Resistance Silicone For Wire and Cable
- Ceramified Silicone Rubber For Safety Cable and Fire Alarm System
- High Temperature Resistance Silicone [300DegC]
- Silicone Rubber for Hose
- High Fatigue Resistant and High Mechanical Strength Grades
- Silicones for Auto-Electronics , Thermally Conductive Agents

Berubsil Silicone

Silicone Elastomer for High Voltage Insulator Application

PRODUCT DESCRIPTION

Silicone Rubber 60 durometer molding compound for high voltage insulator applications which require excellent performance in contaminated environments. Typical applications include composite insulators, arrestors and bushings.

KEY PRODUCT FEATURES

- Excellent Tracking and Erosion Resistance
- Low plasticity for ease of injection molding
- Superior Water Repellency (Hydrophobicity)
- Good mold release
- Good Dielectric Strength
- Low Leakage current

PRODUCT DATA

The following data was obtained on compression moulded 2.00 (±0.2) mm ASTM slabs of elastomer compounded and catalyzed in the laboratory

Test	Standard	value
Specific Gravity	ASTM D792	1.54
Hardness	ASTM D2204	62
Tear Strength	ASTM D624-D	18 N/mm
Tensile strength	ASTM D412	4.0 MPa
Elongation	ASTM D412	300%
Arc Resistance	ASTM 495-1973	310 sec
Dielectric strength	ASTM D149	26 kV/mm
Resistance to tracking and erosion	ASTM 2303/IEC 60587	4.5 kV
Flammability	UL	V0
LOI	ASTM D2863	>40% min

WOOSUNG TR Co.,Ltd

Gangway Diaphragm Bellows
Silicone Coated Sheets for Bellows tested for EN45545 - 2 HL 3

1. BELLOWS physical characteristics

Test items		Criteria	Standard applied
Thickness(㎜)		2.1 ±0.2	KS K ISO 5084
Weight(g/㎡)		Less than 4,000	KS K 0514
	Warp	Over 2,500	
	Weft	Over 2,500	
Ozone crack test		No crack	KS M 6518 (50pphm,50℃,96Hours)
Wear resistance test. (%)		Below 3.5	ASTM D 4060 TABER Weight loss rate (Test condition H-22,1Kg,500 Cycles)
Water resistance test (kg/㎠)		Over 42	KS K 0592
UV-Test		Over Grade 4	KS M ISO 4589-3 (72H)
Xenon-Test		Grade 6	KS K ISO 105-B02 (80H)
Heat resistance (Blocking) test		Over Grade 4	KS K 0760
Cold resistance (-40℃, 24 Hours)		There should be no problem	KS K 0766

※ Specimen for the cloth test of BELLOWS is collected from raw material that is prepared for assembly of finished product.

※ Various tests are replaced by test reports from authorized test laboratory (domestic and foreign), and tests may be conducted with the approval or admission of supervisor in case of emergency.

2. The fire performance of the material

(EN 45545-2 R1 HL3 is Tested)

Test items			Criteria	Standards
	Heat release	MARHE (kw/m², @50 kw/m²)	Less than 60	ISO 5660-1
	Flame spread	CFE(kW/㎡)	Over 20	ISO 5658-2
		Ds(4)	Less than 150	
		VOF_4	Less than 300	
	Toxicity index	CITo	Less than 0.75	ISO 5659-2

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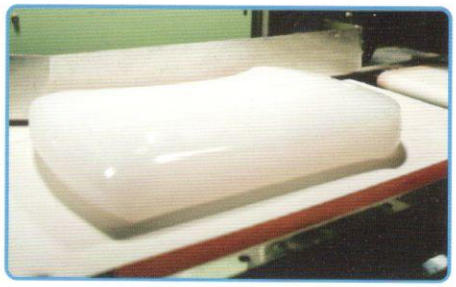
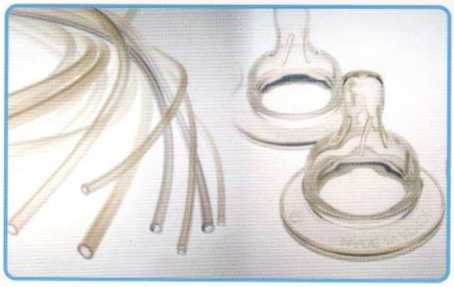
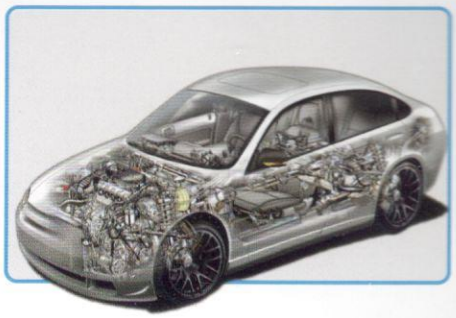
Application Development • Technical Support from our Principals

Our Product Range

- SILICONE RUBBER & SPECIALITY SILICONES
- SILICONE GUM
- LIQUID SILICONE RUBBER (LSR) & RTV
- SILICONE ADDITIVES & COLOUR MASTERBATCH
- FLUOROSILICONE RUBBER (FVMQ)
- FLUOROELASTOMER (FKM)
- PERFLUOROELATOMERS (FFKM)
- SILICONE FOR AUTO ELECTRICALS
- ORGANIC PEROXIDES BY ARKEMA
- SPECIALITY CHEMICALS & ADDITIVES
- SILICONE FLUID / OIL / OH POLYMER
- ALL TYPES OF INDUSTRIAL CARBON BLACK GRADES
- PROCESSING ADDITIVES
- SYNTHETIC RUBBER
- EPDM RUBBER
- NITRILE RUBBER & PVC NBR
- RUBBER COMPOUNDS
- UHMW & PTFE (FILM)
- SPECIALITY FOAMS
- CARBON BLACK N990
- CHLOROPRENE RUBBER

We are **ready** for
***Next Gen* Raw Material**
for *EV Electrical Vehicles*

Berubsil
Silicone

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